

AMENDMENTS TO THE CLAIMS

Claim 1 (currently amended): An acoustic signal input device comprising:

- 5 an input for inputting acoustic signals;
- a plurality of ~~bandpass-filter~~ filtering units each for passing acoustic signals with frequencies within a predetermined frequency range, and transforming the acoustic signals into electrical signals and
- 10 amplifying the electrical signals; and
- a plurality of switches each connected to a corresponding ~~bandpass-filter~~ filtering units for controlling on and off of the ~~bandpass-filter~~ filtering units;
- wherein the switches are capable of being selectively turned
- 15 on ~~so as to~~ such that the bandpass filtering units amplify transformed electrical signals within different frequency ranges at different amplifications.

Claim 2 (currently amended): The acoustic signal input

- 20 device of claim 1 wherein each of the ~~bandpass-filter~~ filtering units comprises:
- two signal transformation units for transforming acoustic signals into electrical signals, the signal transformation units having different resonant
- 25 frequencies for filtering the electrical signals; and
- a differential amplifier electrically connected to the signal transformation units for amplifying a

difference between the electrical signals transmitted
from the signal transformation units.

5 Claim 3 (currently amended): The acoustic signal input device
of claim 1 wherein each of the bandpass ~~filter~~ filtering units
is an amplitude-tunable filter capable of changing
amplification of electrical signals.

10 Claim 5 (currently amended): The acoustic signal input device
of claim 1 wherein the plurality of bandpass ~~filter~~ filtering
units are formed by performing a micromachining fabrication
process.

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15 Claim 6 (currently amended): The acoustic signal input
device of claim 1 ~~being a microphone~~ 2 wherein the signal
transformation units are microphones.

Claim 7 (currently amended): An acoustic signal input device
comprising:
20 an input for inputting acoustic signals;
a plurality of bandpass filters each for passing acoustic
signals with frequencies within a predetermined
frequency range and transforming the acoustic signals
into electrical signals;
25 a plurality of amplification circuits connected to
the bandpass filters for amplifying electrical
signals transmitted from the bandpass filters; and
a plurality of switches each connected to a corresponding
amplification circuit for controlling on and off of

the amplification circuit;

wherein the switches are capable of being controlled to selectively turn on the amplification circuits so as to amplify electrical signals transmitted from the bandpass filters within different frequency ranges at different amplifications.

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Claim 12 (currently amended): The acoustic signal input device of claim 7 ~~being a microphone~~ 8 wherein the signal transformation units are microphones.

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Claim 14 (currently amended): The acoustic signal output device of claim 13 wherein each of the amplifying elements has a ~~greatest~~ specific amplification for electrical signals within a frequency range corresponding to a frequency range of a channel that is connected to the amplifying element.

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